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## **LISTING OF CLAIMS:**

- 1. (original) A compound comprising a heptasaccharide of formula GalNAc-a1,4-GalNAc-a1,4-[Glc- $\beta$ 1,3]GalNAc-a1,4-GalNAc-a1,4-GalNAc-a1,3-Bac, wherein Bac is 2,4-diacetamido-2,4,6-trideoxy-D-glucopyranose or an immunologically active fragment thereof.
- 2. (original) The compound as defined in claim 1 linked to an amino acid or oligopeptide.
- 3. (original) The compound as defined in claim 2 wherein said amino acid is asparagine.
- 4. (amended) The compound as defined in <del>any of</del> claims 1, 2 or 3 derived from a glycoprotein isolated and purified from a campylobacter bacterium.
- 5. (original) The compound as defined in claim 4, wherein said bacterium is selected from *C. jejuni*, *C. coli* and *C. fetus* ssp. *venerealis*.
- 6. (original) A method of detecting a glycan moiety of a bacterial glycoprotein, the method comprising subjecting said sample to high resolution magic angle spinning nuclear magnetic resonance (HR-MAS NMR) spectroscopy.
- 7. (amended) A pharmaceutical composition comprising a compound of any of as defined in claims 1 through 5 and a physiologically acceptable carrier.
- 8. (original) The pharmaceutical composition as defined in claim 7, further comprising an immunogenic conjugate.
- 9. (original) The pharmaceutical composition of claim 7 or 8, further comprising an immunostimulant.
- 10. (original) Use of the pharmaceutical composition as defined in any one of claims 7 through 9 as a vaccine in an animal or a human.

- 11: (original) An antibody or an antigen-binding fragment of an antibody that specifically binds with a compound comprising a glycan of the formula GalNAc-a1,4-GalNAc-a1,4-GalNAc-a1,4-GalNAc-a1,3-Bac, wherein Bac is 2,4-diacetamido-2,4,6-trideoxy-D-glucopyranose or an immunologically active fragment thereof.
- 12. (amended) An antibody or an antigen-binding fragment of an antibody that specifically binds with a compound as defined in any of claims 1 through 6.5.
- 13. (amended) An antibody or an antigen-binding fragment of an antibody which specifically binds with a compound as defined in <del>any one of claims 1 through 6-5</del> derived from a gene isolated from a camelid.
- 14. (original) The antibody or antigen-binding fragment thereof as defined in claim 13, wherein said CAMELID is selected from *Camelus bactriamus*, *Camelus dromaderius*, *Lama pPaccos*, *Lama ggGlama* and *Lama vVicugna*.
- 15. (amended) A pharmaceutical composition comprising the antibody or antigen-binding fragment as defined in any one of claims 11 through 14, and a physiologically acceptable carrier.
- 16. (original) Use of the pharmaceutical composition as defined in claim 15 as a therapeutic agent in a human or an animal.
- 17. (amended) A method of reducing the presence of campylobacter pathogens from livestock, the method comprising administering to the livestock the antibody or antigen-binding fragment as defined in any one of claims 11 through 15.
- 18. (original) A method as defined in claim 17, wherein said administration consists of feeding the livestock with feed mixed with said antibody or antigenbinding fragment.

- 19. (amended) The method as defined in claim 17 or 18, wherein said livestock is poultry.
- 20. (original) A method of preventing campylobacter infections caused by campylobacter pathogens in a human, the method comprising removing said pathogens from livestock by the method as defined in claim 17.
- 21. (amended) A method of treating a disease caused by campylobacter pathogens in a human or an animal, the method comprising administering the antibody or antigen-binding fragment as defined in any one of claims 11 through 14.
- 22. (original) A method of preventing ground water contamination by campylobacter pathogens, the method comprising reducing the presence of said pathogens from livestock by the method as defined in claim 17.
- 23. (amended) An animal feed or drink for livestock comprising the antibody or antigen-binding fragment as defined in any one of claims 11 through 14.
- 24. (original) A feed or drink as defined in claim 23 comprising an additive comprising said antibody or fragment.
- 25. (original) A feed as defined in claim 23 comprising a plant containing a genome modified to express said antibody or fragment.
- 26. (amended) A plant genome containing a gene capable of expressing the antibody or antibody fragment as defined in any of claims 11 through 14.
- 27. (amended) A plant cell containing the genome <u>as</u> defined in claim 26.
- 28. (amended) A plant containing the cell <u>as</u> defined in claim 27.
- 29. (amended) The plant genome of <u>as defined in</u> claim 26, wherein said gene is obtained by panning a library of camelid genes with a probe comprising the

compound <u>as</u> defined in claims 1 through 5, for camelid genes capable of expressing said antibody fragment and incorporating said gene in a plant genome.

- 30. (amended) A diagnostic kit for detecting the presence of campylobacter in animals or humans, said kit comprising the antibody or antibody fragment  $\underline{as}$  defined in  $\underline{any}$  of claims  $11-\underline{14}$ .
- 31. (amended) A diagnostic kit for detecting the presence of campylobacter in a sample, said kit comprising the antibody or antibody fragment <u>as</u> defined in <del>any of</del> claims 11–14.
- 32. (amended) The kit <u>as</u> defined in claim 31 wherein said sample is selected from water, soil and manure.